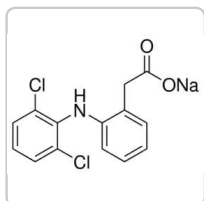


Saisir le nom du produit, le numéro de lot, etc.

[Toutes les photos](#) (1)

Documents

[↓ FDS](#)[🔍 COO/COA](#)[📄 Fiche des caractéristiques](#)[Plus de documents](#) »**D6899** ▶ **Sigma-Aldrich.**

Diclofenac sodium salt

★★★★★ (0)

Synonyme(s):

2-[(2,6-Dichlorophenyl)amino]benzeneacetic acid sodium salt

Empirical Formula (Hill Notation):

C₁₄H₁₀Cl₂NNaO₂Numéro CAS: **15307-79-6**Numéro EC: **239-346-4**ID de substance PubChem: **24277712**

Poids moléculaire: 318.13

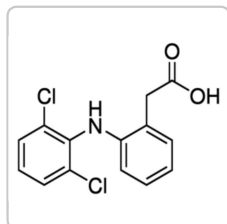
Numéro MDL: **MFCD00082251**

NACRES: NA.77

Référence	Conditionnement	Disponibilité	Prix	Quantité
D6899-10G	10 G	✓ Date d'expédition estimée le 28 octobre 2022	109,00 €	— + 
D6899-25G	25 G	✓ Only 2 left in stock (more on the way) Détails...	241,00 €	— + 
D6899-100G	100 G	✓ Only 1 left in stock (more on the way) Détails...	404,00 €	— + 

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PRODUITS RECOMMANDÉS



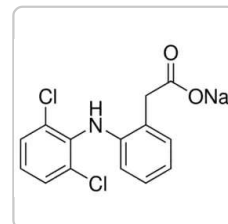
Sigma-Aldrich

SML3086

Diclofenac

≥98% (HPLC)

[Consulter le prix et la disponibilité](#)



Supelco

93484

Diclofenac sodium salt

analytical standard

[Consulter le prix et la disponibilité](#)

PROPRIÉTÉS

Source biologique	synthetic
Niveau de qualité	100
Essai/Dosage	≥98% (TLC)
Forme	powder
Pf	283-285 °C
Solubilité	methanol: 50 mg/mL, clear, colorless to faint yellow or tan
Auteur	Novartis

Temp. de stockage	room temp
SMILES string	<chem>[Na+].[O-]C(=O)Cc1ccccc1Nc2c(Cl)cccc2Cl</chem>
InChI	1S/C14H11Cl2NO2.Na/c15-10-5-3-6-11(16)14(10)17-12-7-2-1-4-9(12)8-13(18)19;/h1-7,17H,8H2,(H,18,19);/q;+1/p-1
InChI key	KPHWPUGNDIVLNH-UHFFFAOYSA-M
Gene Information	human ... PTGS1(5742) , PTGS2(5743)

Vous recherchez des produits similaires ? Visitez [Guide de comparaison des produits](#)

DESCRIPTION

Application

Diclofenac sodium has been used:

- to investigate its radioprotective potential in a study
- to determine the basic viscosity and hydrodynamic values of the solubilizers and their micellar adducts in a study
- as a standard for potentiometric and fluorimetric determination of diclofenac in a sequential injection analysis system
- to inhibit phase II drug metabolizing enzyme (DME) in a study to investigate the inhibitory effects of an ethanol extract of *Descurainia sophia* seeds on Phase I and II DMEs

Actions biochimiques/physiologiques

Diclofenac sodium salt is a nonsteroidal anti-inflammatory drug (NSAID) that acts as a competitive and irreversible inhibitor of prostaglandin synthetase. Its analgesic and anti-inflammatory activities are based on the prevention of the synthesis of

arachinodate metabolites via cyclooxygenase inhibition. It is found to hinder the conversion of arachidonic acid to prostaglandins, which mediate inflammatory process. The NSAIDs are found to inhibit both cyclooxygenase enzymes, COX-1 and COX-2, causing undesirable gastrointestinal effect. Diclofenac sodium also functions as a scavenger of free radicals and serves a radioprotective role in restoring supercoiled form of plasmid DNA damaged by radiation back to normal. Diclofenac sodium is oxidized by the donation of electron and transfer of hydrogen atom. It can be a potential radioprotective agent.

Standard NSAID and cyclooxygenase (COX) inhibitor. Major metabolites are 4'-hydroxydiclofenac and 5'-hydroxydiclofenac. Has been used as substrate selective for CYP2C9.

Caractéristiques et avantages

This compound is a featured product for ADME Tox research. [Click here](#) to discover more featured ADME Tox products. Learn more about bioactive small molecules for other areas of research at sigma.com/discover-bsm.

This compound is featured on the [Acid-Sensing \(Proton-gated\) Ion Channels \(ASICs\)](#) and [Nuclear Receptors \(PPARs\)](#) pages of the Handbook of Receptor Classification and Signal Transduction. To browse other handbook pages, [click here](#).

This compound was developed by [Novartis](#). To browse the list of other pharma-developed compounds and Approved Drugs/Drug Candidates, [click here](#).

INFORMATIONS SUR LA SÉCURITÉ

Pictograms



GHS06,GHS08,GHS09

Mention d'avertissement

Danger

Mentions de danger

H301 - H361d - H372 - H411

Conseils de prudence

P201 - P273 - P301 + P310 + P330

Classification des risques

Acute Tox. 3 Oral - Aquatic
Chronic 2 - Repr. 2 - STOT RE
1

Code de la classe de stockage

6.1C - Combustible, acute
toxic Cat.3 / toxic compounds

WGK

WGK 3

Flash Point(F)

Not applicable

or compounds which causing
chronic effects

Point d'éclair C

Not applicable

**Équipement de protection
individuelle**

Eyeshields, Faceshields,
Gloves, type P2 (EN 143)
respirator cartridges

DOCUMENTATION

Certificat d'analyse

Saisir un numéro de lot pour rechercher un certificat d'analyse (COA).

Numéro de lot

e.g. 023J5431

Comment saisir un numéro de lot (COA)

Rechercher

Certificat d'origine

Saisir un numéro de lot pour rechercher un certificat d'origine (COO).

Numéro de lot

e.g. 023J5431

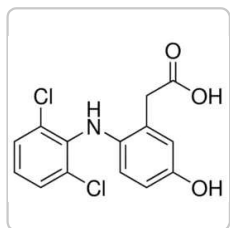
Comment saisir un numéro de lot (COO)

[Rechercher](#)

Plus De Documents

[Structure Search](#)[FDS](#)

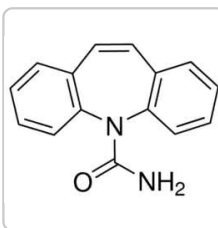
LES CLIENTS ONT ÉGALEMENT CONSULTÉ



Supelco

41694**5-Hydroxydiclofenac**

analytical standard

[Consulter le prix et la disponibilité](#)

Sigma-Aldrich

C4024**Carbamazepine**

powder

[Consulter le prix et la disponibilité](#)

ARTICLES REVUS PAR DES PAIRS

Simultaneous potentiometric and fluorimetric determination of diclofenac in a sequential injection analysis system

Analytica Chimica Acta, 470, 185-194 (2002)

Radioprotective role of clinical drug diclofenac sodium.

Amit Alok et al.*Mutation research, 755(2), 156-162 (2013-07-06)*

The potential of clinical drug diclofenac sodium which is routinely used in clinics as non-steroid anti-inflammatory drugs opens a new insight in development of radioprotector. The drug has shown its potential radioprotective efficacy in clonogenic cell survival in Chinese hamster

Diclofenac sodium (GP 45840, Voltaren), a potent inhibitor of prostaglandin synthetase.

E C Ku et al.

Biochemical pharmacology, 24(5), 641-643 (1975-03-01)

Effect of an ethanol extract of *Descurainia sophia* seeds on Phase I and II drug metabolizing enzymes and P-glycoprotein activity in vitro.

Jin-Mu Yi et al.

BMC complementary and alternative medicine, 15, 441-441 (2015-12-20)

Descurainia sophia seeds have a variety of pharmacological functions and been widely used in traditional folk medicine. However, their effects on human drug metabolizing enzyme (DME) activities have not been elucidated. The present study investigated the inhibitory effects of an

Diclofenac impairs autophagic flux via oxidative stress and lysosomal dysfunction: Implications for hepatotoxicity.

Seung-Hwan Jung et al.

Redox biology, 37, 101751-101751 (2020-10-21)

Treatment with nonsteroidal anti-inflammatory drugs (NSAIDs) is associated with various side effects, including cardiovascular and hepatic disorders. Studies suggest that mitochondrial damage and oxidative stress are important mediators of toxicity, yet the underlying mechanisms are poorly understood. In this study

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PROTOCOLES ET ARTICLES SCIENTIFIQUES

Contenu apparenté

[Discover Bioactive Small Molecules for ADME/Tox](#)

Discover Bioactive Small Molecules for ADME/Tox

Discover Bioactive Small Molecules for Lipid Signaling Research

Discover Bioactive Small Molecules for Lipid Signaling Research

PRODUITS CONSULTÉS RÉCEMMENT



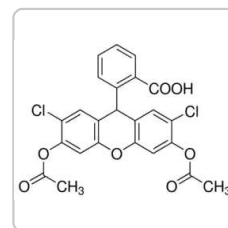
Sigma-Aldrich

D6898

Deoxyribonucleic acid sodium salt from herring testes

Type XIV

[Consulter le prix et la disponibilité](#)



Sigma-Aldrich

D6883

2',7'-Dichlorofluorescein diacetate

≥97%

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Évaluations



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Questions

[Soyez le premier à poser une question](#)

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Notre équipe de scientifiques dispose d'une expérience dans tous les secteurs de la recherche, notamment en sciences de la vie, science des matériaux, synthèse chimique, chromatographie, analyse et dans de nombreux autres domaines..

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