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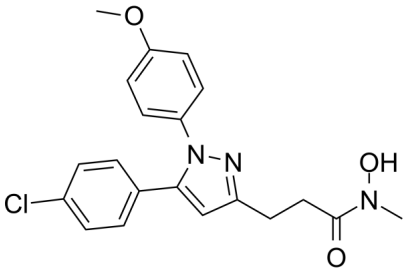
Certificate of Analysis

Catalog Number	BP15209
Product Name	Tepoxalin

Physical and Chemical Properties

Synonyms	RWJ-20485, ORF-20485, ORF20485, RWJ20485, RWJ 20485, ORF 20485
CAS No.	103475-41-8
Chemical Formula	C20H20ClN3O3
Molecular Weight	385.85
Solubility	DMSO: 60 mg/ml (155.5 mM)
Storage	Powder: -20°C for 2 years In solvent: -80°C for 1 year
Chemical Structure OR Tested Image	

Product Information

Description	Tepoxalin is a dual inhibitor of COX and 5-lipoxygenase (5-LO) with potent anti-inflammatory activity and a favorable gastrointestinal profile.
Targets&IC50	LOX:0.15 microM(RBL-1 lysates), LOX:1.7 microM(intact RBL-1 cells), COX:2.85 microM(rat basophilic leukemia cell (RBL-1) lysate), COX:4.2 microM(intact RBL-1 cells), COX:4.6 microM(sheep seminal vesicle)
In vivo	Tepoxalin inhibits inflammation and microvascular dysfunction induced by abdominal irradiation in rats.In vivo, tepoxalin, administered orally, demonstrated potent anti-inflammatory activity in the established adjuvant arthritic rat (ED50 = 3.5 mg/kg) and potent analgesic activity in the acetic acid abdominal construction assay in mice (ED50 = 0.45 mg/kg). In an ex vivo whole blood eicosanoid production assay, tepoxalin produces a dose-related inhibition of prostaglandin (PG) and LT production in dogs (PGF2 alpha - ED50 = 0.015 mg/kg; LTB4 - ED50 = 2.37 mg/kg) and adjuvant arthritic rats following oral administration. In adjuvant arthritic rats, tepoxalin is devoid of ulcerogenic activity within its anti-inflammatory therapeutic range (1-33 mg/kg p.o.) and does not exhibit ulcerogenic activity in normal rats at doses lower than 100 mg/kg (UD50 = 173 mg/kg p.o.).

Analytical Data

HPLC	Shows Min >99% purity
H-NMR	Consistent with structure
Stability and Solubility Advice	Information on product stability, especially in solution, has rarely been reported and in most cases we can only provide a general guideline. We recommend that once the stock solution has been prepared, it be stored in equal quantities in sealed vials and used within 1 month. Avoid repeated freezing and thawing cycles. Storage conditions for some special products should be referred to their storage details.

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