



Gabapentin enacarbil

Catalog No: tcsc1698

<u>Z</u>	Available Sizes
Size:	5mg
Size:	10mg
	Specifications
CAS 47829	No: 96-72-9
Form	ula: 27 ^{NO} 6
Path Memb	way: orane Transporter/lon Channel
Targ Calciu	et: um Channel
Purit >98%	y / Grade:
	oility: M in DMSO
Alter XP-13	native Names: 512
Obse 329.3	rved Molecular Weight:

Product Description

Gabapentin enacarbil (XP-13512) is a prodrug for the anticonvulsant and analgesic drug gabapentin.





IC50 Value:

Target: Calcium Channel

Gabapentin enacarbil is an actively transported prodrug of gabapentin that provides sustained dose-proportional exposure to gabapentin and predictable bioavailability.

in vitro: The prodrug (XP-13512) demonstrated active apical to basolateral transport across Caco-2 cell monolayers and pH-dependent passive permeability across artificial membranes. XP13512 inhibited uptake of (14)C-lactate by human embryonic kidney cells expressing monocarboxylate transporter type-1, and direct uptake of prodrug by these cells was confirmed using liquid chromatography-tandem mass spectrometry. XP13512 inhibited uptake of (3)H-biotin into Chinese hamster ovary cells overexpressing human sodium-dependent multivitamin transporter (SMVT) [1].

in vivo: In 4 studies of healthy volunteers (136 subjects total), the pharmacokinetics of XP13512 immediate- and extended-release formulations were compared with those of oral gabapentin. XP13512 immediate-release (up to 2800 mg single dose and 2100 mg twice daily) was well absorbed (>68%, based on urinary recovery of gabapentin), converted rapidly to gabapentin, and provided dose-proportional exposure, whereas absorption of oral gabapentin declined with increasing doses to Toxicity: Gabapentin\'s most common side effects in adult patients include dizziness, fatigue, weight gain, drowsiness, and peripheral edema (swelling of extremities).

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All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!