

Produktinformation



Forschungsprodukte & Biochemikalien
Zellkultur & Verbrauchsmaterial
Diagnostik & molekulare Diagnostik
Laborgeräte & Service

Weitere Information auf den folgenden Seiten! See the following pages for more information!



Lieferung & Zahlungsart siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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PRODUCT INFORMATION



PTP Inhibitor IV

Item No. 18458

CAS Registry No.:	329317-98-8	
Formal Name:	N,N'-[1,4-phenylenebis[(1-	
	methylethylidene)-4,1-	
	phenylene]]bis[1,1,1-trifluoro-	
	methanesulfonamide	H \/
Synonym:	Protein Tyrosine Phosphatase	F ₃ C S N
	Inhibitor IV	
MF:	C ₂₆ H ₂₆ F ₆ N ₂ O ₄ S ₂	N ^S CF ₃
FW:	608.6	
Purity:	≥98%	
Stability:	≥2 years at -20°C	
Supplied as:	A crystalline solid	
UV/Vis.:	λ _{max} : 229 nm	

Laboratory Procedures

For long term storage, we suggest that PTP inhibitor IV be stored as supplied at -20°C. It should be stable for at least two years.

PTP inhibitor IV is supplied as a crystalline solid. A stock solution may be made by dissolving the PTP inhibitor IV in the solvent of choice. PTP inhibitor IV is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of PTP inhibitor IV in ethanol and DMSO is approximately 25 mg/ml and approximately 30 mg/ml in DMF.

PTP inhibitor IV is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, PTP inhibitor IV should first be dissolved in DMF and then diluted with the aqueous buffer of choice. PTP inhibitor IV has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Protein tyrosine phosphatases (PTPs) remove phosphate from tyrosine residues of cellular proteins. Reversible phosphorylation catalyzed by the coordinated actions of protein tyrosine kinases and phosphatases is key to the regulation of the signaling events that control cell growth and proliferation, differentiation, and survival or apoptosis, as well as adhesion and motility. PTP inhibitor IV is an uncharged, 1,4-di-substituted, phenyl-linked bis-trifluoromethylsulfonamido phosphate mimetic that acts as a reversible, competitive, and active-site directed inhibitor of SHP-2, PTP1B, PTP-ε, PTP-Meg-2, PTP-σ, PTP-β, and PTP-μ (IC₅₀s = 1.8, 2.5, 8.4, 13, 20, 6.4, and 6.7 µM, respectively).¹

Reference

1. Huang, P., Ramphal, J., Wei, J., et al. Structure-based design and discovery of novel inhibitors of protein tyrosine phosphatases. Bioor. Med. Chem. 11, 1835-1849 (2003).

WARNING THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFFTY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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