



Product Information

Orphenadrine citrate

Cat. No.: X23-12-YM128

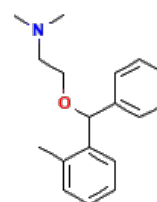
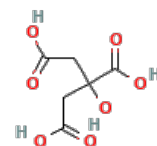
Size: 100 mg; 200 mg; 500 mg; 1 g

CAS Number: 4682-36-4

PubChem CID: 83823

Synonym: 4682-36-4; Norflex

This product is for research use only and is not intended for diagnostic use.



Product Information

Description	Orphenadrine citrate, soluble in DMSO and insoluble in water and ethanol, inhibits the signaling pathway between G-protein-coupled receptors (GPCRs) and G proteins. It targets NMDA receptor.
Molecular Weight	461.5
Molecular Formula	C ₁₈ H ₂₃ NO·C ₆ H ₈ O ₇
Targets	NMDA receptor: 6.0 μM
IUPAC Name	<i>N, N</i> -Dimethyl-2-[(2-methylphenyl)-phenylmethoxy]ethanamine;2-hydroxypropane-1, 2, 3-tricarboxylic acid
InChI	InChI=1S/C18H23NO.C6H8O7/c1-15-9-7-8-12-17(15)18(20-14-13-19(2)3)16-10-5-4-6-11-16;7-3(8)1-6(13, 5(11)12)2-4(9)10/h4-12, 18H, 13-14H2, 1-3H3;13H, 1-2H2, (H, 7, 8)(H, 9, 10)(H, 11, 12)
InChI Key	MMMNTDFSPSQXJP-UHFFFAOYSA-N
Canonical SMILES	CC1=CC=CC=C1C(C2=CC=CC=C2)OCCN(C)C.C(C(=O)O)C(CC(=O)O)(C(=O)O)O
Form	Lyophilized powder
Purity	>98%
Solubility	DMSO: 91 mg/mL (197.17 mM); Water: insoluble; Ethanol: insoluble
Stability	The product is stable for three years when stored at the recommended temperature in lyophilized powder.
Applications	Orphenadrine citrate can be used to research and develop therapeutic strategies for certain diseases that involve excessive activation of GPCR-G protein signaling pathways.
Storage	Store at -20°C, and keep desiccated.