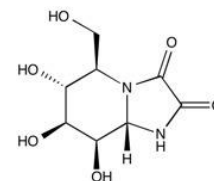


Catalog	Unit
TBI2860 - 1MG	1 mg
TBI2860 - 5MG	5 mg

Product Details

Formal Name: (5R,6R,7S,8R,8aS)-Hexahydro-6,7,8-trihydroxy-5-(hydroxymethyl)-imidazo[1,2-a]pyridine-2,3-dione
Alternate Names: FR-900494
Molecular Formula: C₈H₁₂N₂O₆
Formula Weight: 232.2
CAS Number: 109944-15-2
Purity: >98%
Formulation: Powder
Solubility: Soluble in DMSO (up to 35 mg/ml)
Storage: -20°C
Stability: ≥ 2 years.



Applications

Mannosidase I inhibitor

Functions

Historically isolated from *Kitasatosporia kifunense*. Kifunensine (CAS 109944-15-2) is an inhibitor of class I α -mannosidases which inhibit glycoprotein processing. Inhibits human endoplasmic reticulum α -1,2-mannosidase I and Golgi Class I mannosidases IA, IB and IC with K_i values of 130 and 23 nM respectively. Inhibition of endoplasmic reticulum α -mannosidase I activity rescues the human α -sarcoglycan R77C mutation suggesting a new pharmacological approach for limb girdle muscular dystrophy type 2D patients carrying mutations that impair α -sarcoglycan trafficking. Improves maturation of misfolded proteins.

Application Procedures

First dissolved in DMSO (up to 35 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 1 month.

Relative Products

TBI1170	Mitomycin C
TBI1345	E64, Cysteine protease inhibitor
TBI1347	E64d, Cysteine protease inhibitor
TBI2064	Chromomycin A3
TBI2069	Cytochalasin B
TBI2794	5-EDU, DNA Click labeling probe
TBI2071	Cytochalasin D
TBI1286	Bestatin, Aminopeptidase inhibitor
TBI2140	Gemcitabine
TBI2058	Aphidicolin, DNA polymerase Inhibitor

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