

V-9302, Glutamine transport inhibitor

Catalog	Unit
TBI4245-5MG	5 mg
TBI4245-25MG	25 mg

Product Details

Formal Name: (2S)-2-Amino-4-[bis[[2-[(3-methylphenyl)methoxy]phenyl]methyl]amino]butanoic acid

Molecular Formula: C₃₄H₃₈N₂O₄

Formula Weight: 538.69

CAS Number: 1855871-76-9

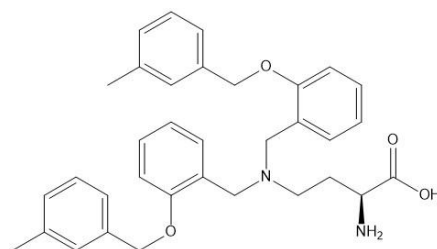
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (>70 mg/ml) or Ethanol (>30 mg/ml)

Storage: -20°C

Stability: ≥ 2 years.



Applications

Glutamine transport inhibitor

Functions

Selective inhibitor of the alanine-serine-cysteine transporter 2 (ASCT2 or SLC1A5; IC₅₀ = 9.0 μM rat and 9.6 μM human). It inhibited the uptake of both glutamine and possibly other amino acids in human cancer cells and reduced *in vitro* viability by at least 20% in more than half of 29 cancer cell lines screened. V-9302 decreased mTOR activity, elevated autophagy, and increased oxidative stress in multiple animal cancer models. Suppressed osteoclast differentiation *in vitro* and improved ovariectomy-induced bone loss in mice.

Application Procedures

First dissolved in DMSO (>70 mg/ml) or Ethanol (>30 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

For research use only.