

## 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:** C<sub>34</sub>H<sub>38</sub>N<sub>2</sub>O<sub>4</sub>

**Formula Weight:** 538.69

**CAS Number:** 1855871-76-9

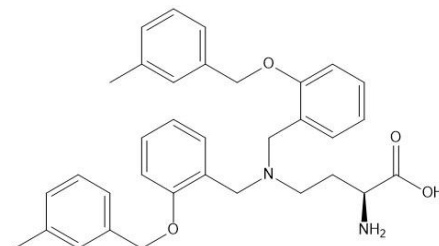
**Purity:** >98%

**Formulation:** powder

**Solubility:** Soluble in DMSO (up to at least 70 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; IC<sub>50</sub> = 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.

### Application Procedures

First dissolved in DMSO (up to at least 70 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.**