

Catalog	Unit
TBI4003-5MG	5 mg
TBI4003-25MG	25 mg

Product Details

Formal Name: 4-(3-(Methylsulfonyl)phenyl)-1-propylpiperidine

Alternate Names: ACR16

Molecular Formula: C₁₅H₂₃NO₂S

Formula Weight: 281.41

CAS Number: 346688-38-8

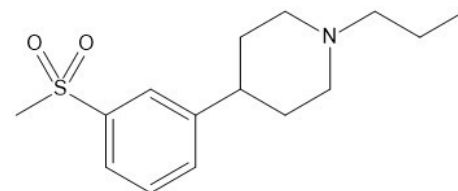
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (>25 mg/mL)

Storage: RT

Stability: ≥ 1 year.



Applications

Sigma-1 Ligand/Neuroprotective/restorative

Functions

Pridopidine is being studied as a potential treatment for Huntington's disease, Parkinson's disease, and schizophrenia based on its locomotor stabilizing and antipsychotic-like effects. It was, unusually, able to reverse both hypo- and hyperdopaminergia depending on local dopamine concentrations without inducing catalepsy. This was originally attributed to functional dopamine D2 antagonism with fast on/off kinetics ("dopamine stabilizer"). More recent studies have attributed pridopidine's effects to its being a more potent sigma-1 ligand than a D2 ligand. Displays neuroprotective/restorative effects and ameliorates central features of amyotrophic lateral sclerosis pathology in a sigma-1-mediated manner

Application Procedures

First dissolved in DMSO (>25 mg/mL), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20° for up to 3 months.

For research use only.