

N6022, S-Nitrosogluthione reductase inhibitor

Catalog	Unit
TBI4103-5MG	5 mg
TBI4103-25MG	25 mg

Product Details

Formal Name: 3-(5-(4-(1H-Imidazol-1-yl)phenyl)-1-(4-carbamoyl-2-methylphenyl)-1H-pyrrol-2-yl)propanoic acid

Molecular Formula: C₂₄H₂₂N₄O₃

Formula Weight: 414.46

CAS Number: 1208315-24-5

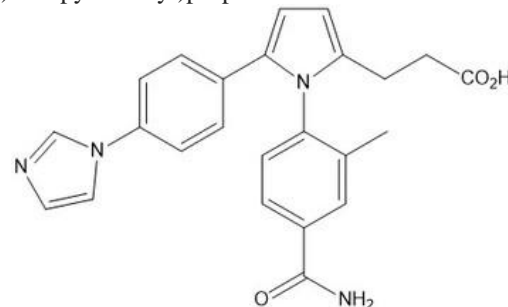
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (up to at least 25 mg/ml)

Storage: -20°C

Stability: ≥ 1 year.



Applications

S-Nitrosogluthione reductase inhibitor

Functions

N6022 is a potent and reversible inhibitor of S-nitrosogluthione reductase (GSNOR) – IC₅₀ = 20 nM, 8 nM. It demonstrated significant efficacy in a mouse models of ovalbumin-induced asthma, chronic obstructive pulmonary disease, and irritable bowel syndrome. N6022 was able to attenuate experimental autoimmune encephalomyelitis (an animal model of multiple sclerosis) via selective inhibition of pro-inflammatory CD4⁺ cells (TH1/TH17) while upregulating anti-inflammatory subsets of CD4⁺ cells (TH2/Treg) without causing lymphopenia.

Application Procedures

First dissolved in DMSO (up to at least 25 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20° for up to 2 months.

For research use only.