

Catalog # 10-4103 N6022

CAS# 1208315-24-5

3-(5-(4-(1H-Imidazol-1-yl)phenyl)-1-(4-carbamoyl-2-methylphenyl)-1H-pyrrol-2-yl)propanoic acid Lot # FBS2041

N6022 is a potent and reversible inhibitor of S-nitrosoglutathione reductase (GSNOR) – $IC_{50} = 20 \text{ nM}^1$, 8 nM². It demonstrated significant efficacy in 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 (T_H1/T_H17) while upregulating anti-inflammatory subsets of CD4+ cells (T_H2/T_{PS}) without causing lymphopenia.³

- 1) Sun et al. (2011), Discovery of s-nitrosoglutathione reductase inhibitors: potential agents for the treatment of asthma and other inflammatory diseases; ACS Med. Chem. Lett. **2** 402
- 2) Green et al. (2012), Mechanism of inhibition for N6022, a first-in-class drug targeting S-nitrosoglutathione reductase; Biochemistry **51** 2157
- 3) Saxena et al. (20198), S-Nitrosoglutathione reductase (GSNOR) inhibitor as an immune modulator in experimental autoimmune encephalomyelitis; Free Radic. Biol. Med. **121** 57

PHYSICAL DATA

Molecular Weight: 414.46

Molecular Formula: C₂₄H₂₂N₄O₃

Purity: >98% HPLC

NMR: (Conforms)

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

Physical Description: White solid

Storage and Stability: Store as supplied at -20°C for up to 1 year from the date of purchase. Store solutions

at -20°C for up to 2 months.

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