

## 3,4-DAA

## Chemical Properties

CAS No. : 2117759-07-4

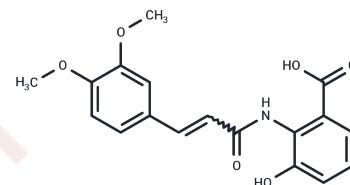
Formula: C<sub>18</sub>H<sub>17</sub>NO<sub>6</sub>

Molecular Weight: 343.33

Store at low temperature

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	3,4-DAA has anti-inflammatory activity, ameliorates acute hepatic allograft injury, and alleviates severe acute pancreatitis by inhibiting intestinal barrier dysfunction and NF-κB activation. 3,4-DAA inhibits EOC20 cell-inducible nitric oxide synthase (iNOS) induced by IFN-γ and lipopolysaccharide.
Targets(IC50)	NOS
In vitro	3,4-DAA can alleviate the severity of colitis by inhibiting the response of Th1 cells, promoting the expression of Th2 cytokines, and inducing the expression of CD4(+)CD25(+) T cells[1].
In vivo	3,4-DAA is an orally active synthetic derivative of the tryptophan metabolite anthranilic acid, which can reverse paralysis in mice with experimental autoimmune encephalomyelitis (EAE), a model of multiple sclerosis (MS)[1].

## Solubility Information

Solubility	DMSO: 5 mg/mL (14.56 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

### Preparing Stock Solutions

---

	1mg	5mg	10mg
1 mM	2.9126 mL	14.5632 mL	29.1265 mL
5 mM	0.5825 mL	2.9126 mL	5.8253 mL
10 mM	0.2913 mL	1.4563 mL	2.9126 mL
50 mM	0.0583 mL	0.2913 mL	0.5825 mL

---

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Quan Wen, et al. N-(3', 4'-dimethoxycinnamonyl) anthranilic acid alleviated experimental colitis by inhibiting autoimmune response and inducing CD4+ CD25+ regulatory T cells production. J Gastroenterol Hepatol. 2013 Aug; 28(8):1330-8.

Michael Platten, et al. Treatment of autoimmune neuroinflammation with a synthetic tryptophan metabolite. Science. 2005 Nov 4;310(5749):850-5.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481