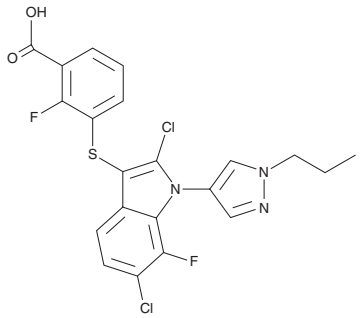
# PRODUCT INFORMATION

## Cudetaxestat

*Item No. 38789*



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| **CAS Registry No.:** | 1782070-21-6 |
| **Formal Name:** | 3-[[2,6-dichloro-7-fluoro-1-(1-propyl-1H-pyrazol-4-yl)-1H-indol-3-yl]thio]-2-fluoro-benzoic acid |
| **MF:** | $C_{21}H_{15}Cl_2F_2N_3O_2S$ |
| **FW:** | 482.3 |
| **Purity:** | ≥98% |
| **Supplied as:** | A solid |
| **Storage:** | -20°C |
| **Stability:** | ≥4 years |

*Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.*

### Laboratory Procedures

Cudetaxestat is supplied as a solid. A stock solution may be made by dissolving the cudetaxestat in the solvent of choice, which should be purged with an inert gas. Cudetaxestat is soluble in DMSO.

### Description

Cudetaxestat is an inhibitor of autotaxin ($IC_{50}$ = ≤0.5 µM), also known as ectonucleotide pyrophosphatase/phosphodiesterase family member 2 (ENPP2).[1,2] It reduces migration of MDA-MB-435 melanoma cells ($IC_{50}$ = 15 nM).[2] Cudetaxestat reduces blood glucose levels in a glucose tolerance test, as well as baseline blood glucose levels, in mice fed a high-fat diet when administered at a dose of 15 mg/kg twice per day for two days.[1] It reduces liver fibrosis in mice fed a choline-deficient, L-amino acid-defined, high-fat diet (CDAA/HFD) as a model of liver fibrosis when administered at a dose of 10 mg/kg.[2] It also reduces colon ulcer area and increases colon length in mouse models of acute and chronic ulcerative colitis, respectively.

### References


1. Evans, J.F. Methods for the treatment of metabolic disorders by a selective small molecule autotaxin inhibitor. *Pharmakea, Inc*. **US009051320B1** (2015).
2. Bain, G., Evans, J.F., Hutchinson, J.H., *et al.* Autotaxin inhibitors and uses thereof. *Sabre Therapeutics, LLC*. **US010632104B2** (2020).





**CAYMAN CHEMICAL**
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
**PHONE:** [800] 364-9897
[734] 971-3335
**FAX:** [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM