

Product data sheet



7. Bioactivity

Biological target:

Ramatroban is an antagonist of the DP2 receptor with IC50 values of 100-170 nM. It is more potent at the DP2 receptor than the TP receptor by 4-5 fold. It is therefore a useful tool for the elucidation of PGD2/DP2 function in eosinophils, basophils, and other cells of the TH2 cell-type.

In vitro activity

The results from this study suggest that Ramatroban is an inverse agonists for thromboxane A2 receptor, which has important therapeutic applications in the treatment of thromboxane A2 receptor mediated pathophysiological conditions.

Reference: PLoS One. 2014 Jan 23;9(1):e85937. <https://pubmed.ncbi.nlm.nih.gov/24465800/>

In vivo activity

Four patients with COVID-19 pneumonia treated with ramatroban exhibited rapid relief of dyspnea and hypoxemia within 12-36 h and complete resolution over 5 days. These results indicate that ramatroban is an antivasospastic, broncho-relaxant, antithrombotic, and immunomodulatory agent.

Reference: Front Pharmacol. 2022 Jul 22;13:904020. <https://pubmed.ncbi.nlm.nih.gov/35935851/>

Note: The information listed here was extracted from literature. MedKoo has not independently retested and confirmed the accuracy of these methods. Customer should use it just for a reference only.