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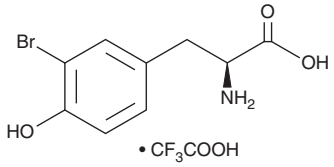
PRODUCT INFORMATION

3-Bromotyrosine (trifluoroacetate salt)

Item No. 22606

CAS Registry No.: 2320428-62-2
Formal Name: 3-bromo-L-tyrosine, monotrifluoroacetate salt
Synonym: 3-bromo-Tyr
MF: $C_9H_{10}BrNO_3 \bullet CF_3COOH$
FW: 374.1
Purity: ≥95%
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥2 years



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

Laboratory Procedures

3-Bromotyrosine (trifluoroacetate salt) is supplied as a crystalline solid. A stock solution may be made by dissolving the 3-bromotyrosine (trifluoroacetate salt) in the solvent of choice. 3-Bromotyrosine (trifluoroacetate salt) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of 3-bromotyrosine (trifluoroacetate salt) in these solvents is approximately 30 mg/ml.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of 3-bromotyrosine (trifluoroacetate salt) can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of 3-bromotyrosine (trifluoroacetate salt) in PBS, pH 7.2, is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

3-Bromotyrosine is a product of protein oxidation found after activation of eosinophils during an allergic response.[1-3] It has been used as a marker of eosinophil peroxidase-induced protein oxidation *in vitro* and *in vivo*.[2,4] In addition to its production in eosinophils, 3-bromotyrosine is found at 5-fold higher levels in peritoneal exudate from mice infected with *K. pneumoniae* compared with uninfected animals, suggesting neutrophils release higher levels of oxidized products during inflammation.[5] In a human study, 3-bromotyrosine was increased 10-fold in allergen-challenged lung samples from subjects with allergen-induced asthma.[2]

References

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2. Heinecke, J.W. *J. Clin. Invest.* **105(10)**, 1331-1332 (2000).
3. Chen, H.-J. and Chiu, W.-L. *Toxicol. Lett.* **181(1)**, 31-39 (2008).
4. MacPherson, J.C., Comhair, S.A., Erzurum, S.C., *et al. J. Immunol.* **166(9)**, 5763-5772 (2001).
5. Wu, W., Chen, Y., d'Avignon, A., *et al. Biochemistry* **38(12)**, 3538-3548 (1999).

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