# PRODUCT INFORMATION

## L-Aspartic Acid β-(7-amido-4-methylcoumarin) (trifluoroacetate salt)

*Item No. 45138*

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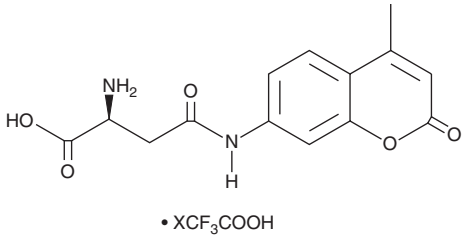
| **Formal Name:** | N-(4-methyl-2-oxo-2H-1-benzopyran-7-yl)-L-asparagine, trifluoroacetate salt |
| **MF:** | $C_{14}H_{14}N_2O_5 \bullet XCF_3COOH$ |
| **FW:** | 290.3 |
| **Purity:** | ≥98% |
| **Ex./Em. Max:** | 360/440-450 nm |
| **Supplied as:** | A crystalline solid |
| **Storage:** | -20°C |
| **Stability:** | ≥4 years |




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

### Laboratory Procedures

L-Aspartic acid β-(7-amido-4-methylcoumarin) (trifluoroacetate salt) is supplied as a crystalline solid. A stock solution may be made by dissolving the L-aspartic acid β-(7-amido-4-methylcoumarin) (trifluoroacetate salt) in the solvent of choice, which should be purged with an inert gas. L-Aspartic acid β-(7-amido-4-methylcoumarin) (trifluoroacetate salt) is sparingly soluble (1-10 mg/ml) in DMSO.

### Description

L-Aspartic acid β-(7-amido-4-methylcoumarin) is a fluorescent probe for the detection of L-asparaginase activity.[1] It displays a weak fluorescent signal with an emission maximum of 400-405 nm upon excitation at 360 nm. Upon hydrolysis by L-asparaginase, 7-amido-4-methylcoumarin is released, displaying an increase in fluorescence intensity with an emission maximum of 440-450 nm upon excitation at 360 nm. It has been used to detect and quantify L-asparaginase activity in live cells and in serum.[1,2]

### References


1. Zlotnikov, I.D. and Kudryashova, E.V. A novel approach for the activity assessment of L-asparaginase formulations when dealing with complex biological samples. *Int. J. Mol. Sci.* **26(11)**, 5227 (2025).
2. Mononen, I.T., Kaartinen, V.M., and Williams, J.C. A fluorometric assay for glycosylasparaginase activity and detection of aspartylglycosaminuria. *Anal. Biochem.* **208(2)**, 372-374 (1993).





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