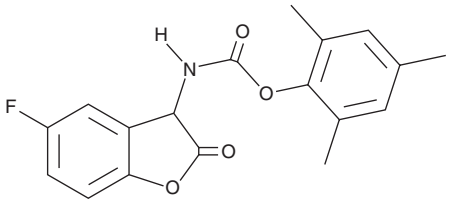
PRODUCT INFORMATION

2-Coumaranone-1-L

Item No. 27389

CAS Registry No.:	1887057-34-2
Formal Name:	N-(5-fluoro-2,3-dihydro-2-oxo-3-benzofuranyl)-carbamic acid-2,4,6-trimethylphenyl ester
MF:	$C_{18}H_{16}FNO_4$
FW:	329.3
Purity:	≥90%
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

2-Coumaranone-1-L is supplied as a crystalline solid. A stock solution may be made by dissolving the 2-coumaranone-1-L in the solvent of choice, which should be purged with an inert gas. 2-Coumaranone-1-L is soluble in organic solvents such as DMSO and dimethyl formamide (DMF). The solubility of 2-coumaranone-1-L in these solvents is approximately 30 mg/ml.

2-Coumaranone-1-L is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, 2-coumaranone-1-L should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. 2-Coumaranone-1-L has a solubility of approximately 0.33 mg/ml in a 1:2 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

2-Coumaranone-1-L is a chemiluminescent probe.[1] In the presence of a base and oxygen, 2-coumaranone-1-L displays an emission maximum of 442 nm.

Reference

1. Schramm, S., Ciscato, L.F., Oesau, P., *et al.* Investigations on the synthesis and chemiluminescence of novel 2-coumaranones - II. *ARKIVOC* **2015(5),** 44-59 (2015).

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