



## DATA SHEET

### Product overview

Name	CELT-058 (cat n. C5aR-646-1)
Short description	C5a receptor fluorescent antagonist.
Biological description	It shows high affinity for the C5aR ( $EC_{50} = 24.89$ nM by saturation binding in Chem1 transfected cells), good potency ( $K_B = 5.8$ $\mu$ M by calcium flux assay) and good competition with the endogenous ligand C5a.
Biological action	Strong binding to hC5a receptor orthosteric site and good antagonistic activity.
Quantity	10 $\mu$ g
Purity	> 95%

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### Properties

Molecular Weight	1145.21
Source	Synthetic
Appearance	Dark blue solid
Formulation	Solid
Excitation	646 nm
Emission	662 nm
Pharmacological validation	The affinity and potency of CELT-058 as C5a receptor fluorescent ligand was confirmed by saturation binding assay and calcium flux assay in Chem1 transfected cells.

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### Validated applications

Flow Cytometry	CELT-058 has been validated in flow cytometry competition binding assays using Chem1 transfected cells.
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### Storing and Using product

Storage instructions	-20 °C (protect from light).
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Solubility overview	Soluble in DMSO.
Stock solution	Add 87 $\mu$ L of DMSO to obtain a 100 $\mu$ M stock solution. We recommend not exceeding 1% of DMSO in the final assay solution.
Handling	After thawing individual aliquots for use, we recommend briefly sonicating the sample to ensure it is fully dissolved and the solution is homogeneous. We do not recommend using the product after subjecting it to repetitive freeze-thaw cycles.
Shipping conditions	The product, as a solid, is stable at ambient temperature for periods of up to a few days and does not require shipping on ice/dry ice.
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

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