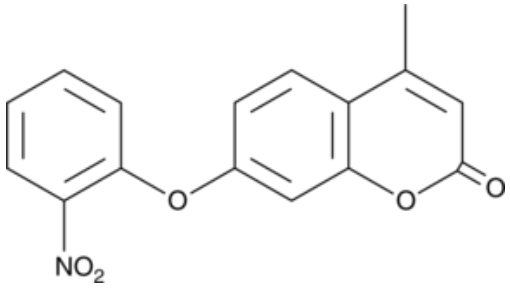
# Product Data Sheet

Product Name: 4-Methyl-7-(2-nitrophenoxy)-2H-chromen-2-one
Cat. No.: GC45348

## Chemical Properties

| | | | |
|---|---|---|---|
| Cas. No. | 1286479-53-5 | | |
| SMILES | CC(C(C=C1)=C(O2)C=C1OC3=C([N+]([O-])=O)C=CC=C3)=CC2=O | | |
| Formula | C16H11NO5 | M.Wt | 297.3 |
| Solubility | Chloroform: 30 mg/ml,DMF: 30 mg/ml,DMF:PBS (pH 7.2) (1:2): 0.33 mg/ml,DMSO: 5 mg/ml | Storage | Store at -20°C |
| General tips | For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months. | | |
| Shipping Condition | Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request. | | |

Structure




## Background

4-Methyl-7-(2-nitrophenoxy)-2H-chromen-2-one is a fluorescent coumarin derivative.1,2 It displays excitation/emission maxima of 323/445 nm, respectively.1

References

1. Zhang, B., Ge, C., Yao, J., et al. Selective selenol fluorescent probes: Design, synthesis, structural determinants, and biological applications. J. Am. Chem. Soc. 137(2), 757-769 (2015).
2. Chen, Y., Shang, X., Li, C., et al. The synthesis, crystal, hydrogen sulfide detection and cell assement of novel chemsensors based on coumarin derivatives. Sci. Rep. 8(1), 16159 (2018).

***Caution: Product has not been fully validated for medical applications. For research use only.***
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