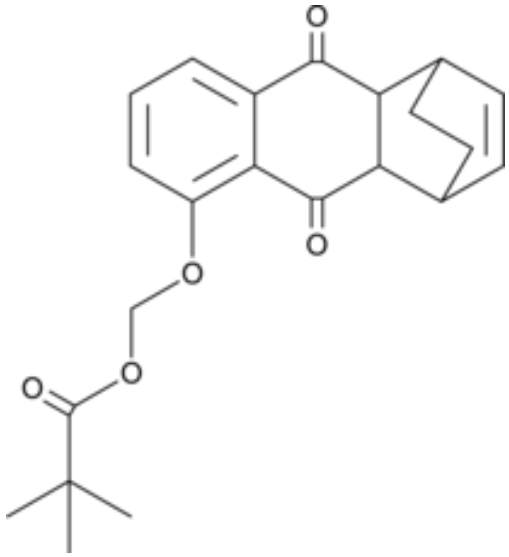
# Product Data Sheet

Product Name: MGR1
Cat. No.: GC45513

## Chemical Properties

| | | | |
|---|---|---|---|
| Cas. No. | 2361529-46-4 | | |
| SMILES | O=C1C2C(C3C=CC2CC3)C(C4=C(OCOC(C(C)(C)C)=O)C=CC=C41)=O | | |
| Formula | C22H24O5 | M.Wt | 368.4 |
| Solubility | DMF: 30 mg/mL,DMSO: 30 mg/mL,Ethanol: 30 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

MGR1 is a probe that generates reactive oxygen species (ROS).1 Upon activation by esterases, MGR1 produces superoxide in vitro, an effect that is reversed by superoxide dismutase (SOD). MGR1 produces ROS and increases production of oxidized phosphatidylserine species in HEK293T cells. It reduces viability of HEK293T cells (IC50s = 5.1-6.3 μM).

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

1. Kelkar, D., Ravikumar, G., Mehendale, N., et al. A chemical-genetic screen identifies ABHD12 as an oxidized-phosphatidylserine lipase. Nat. Chem. Biol. 15(2), 169-178 (2019).

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