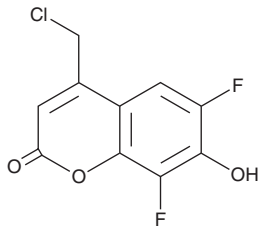
PRODUCT INFORMATION

Cell Tracker Blue CMF2HC Dye

Item No. 46235

CAS Registry No.: 215868-45-4
Formal Name: 4-(chloromethyl)-6,8-difluoro-7-hydroxy-2H-1-benzopyran-2-one
Synonym: C12881
MF: $C_{10}H_5ClF_2O_3$
FW: 246.6
Purity: ≥98%
UV/Vis.: λ_{max}: 326 nm
Ex./Em. Max: 371/464 nm
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years
Special Conditions: Protect from light



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

Laboratory Procedures

Cell tracker blue CMF2HC dye is supplied as a solid. A stock solution may be made by dissolving the cell tracker blue CMF2HC dye in the solvent of choice, which should be purged with an inert gas. Cell tracker blue CMF2HC dye is soluble (≥10 mg/ml) in DMSO and sparingly soluble (1-10 mg/ml) in ethanol.

Description

Cell tracker blue CMF2HC dye is a cell-permeable fluorogenic probe.[1,2] Upon reaction with intracellular thiols, it is retained by cells and displays an excitation/emission maxima of 371/464 nm, respectively.[1-3] Cell tracker blue CMF2HC dye has been used to quantify intracellular glutathione (GSH) levels *in vitro*.

References

1. Yuan, P., Zhou, L., Zhang, X., *et al.* UCH-L1 inhibitor LDN-57444 hampers mouse oocyte maturation by regulating oxidative stress and mitochondrial function and reducing ERK1/2 expression. *Biosci. Rep.* **40(10),** BSR20201308 (2020).
2. Gugole, P.M., Zannoni, A., Forni, M., *et al.* Effects of holding and the addition of naloxone on vitrification of equine immature oocytes. *Theriogenology* **239,** 117359 (2025).
3. Dong, Y.-W., Qu, H.-X., Wang, Y.-Q., *et al.* Oleanolic acid improves the *in vitro* developmental competence of early porcine embryos by reducing oxidative stress and ameliorating mitochondrial function. *Anim. Biosci.* **38(3),** 431-443 (2025).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

WARRANTY AND LIMITATION OF REMEDY
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