



Catalog # 10-3284

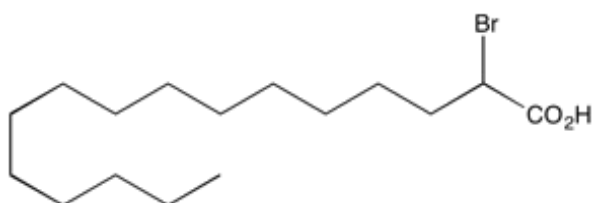
2-Bromopalmitic acid

CAS# 18263-25-7

2-Bromohexadecanoic acid (racemic)

2-BP

Lot # X101733



Inhibits protein S-palmitoylation.¹ Blocks palmitic acid-induced increase in cAMP levels in human primary melanocytes expressing the melanocortin-1 receptor which undergoes an essential palmitoylation as a prerequisite for receptor signaling.²

- 1) Tsukamoto *et al.* (2013), *Role of S-palmitoylation on IFITM5 for the interaction with FKBP11 in osteoblast cells*; PLoS One, **8(9)** e75831
- 2) Chen *et al.* (2017), *Palmitoylation-dependent activation of MC1R prevents melanomagenesis*; Nature, **549** 399

PHYSICAL DATA

Molecular Weight: 335.32
Molecular Formula: C₁₆H₃₁BrO₂
Purity: 98% by TLC
NMR: (Conforms)
Solubility: DMSO (up to 75 mg/ml) or Ethanol (up to 25 mg/ml)
Physical Description: White solid
Storage and Stability: Store as supplied desiccated at room temperature for up to 1 year from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 2 months.

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