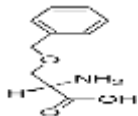


**PRODUCT: O-Benzyl-L-serine****ALTERNATE NAMES:** (S)-2-Amino-3-benzyloxypropionic acid; BenSer**CATALOG NUMBER:** B2152-100, 500**AMOUNT:** 100 mg, 500 mg**STRUCTURE:****MOLECULAR FORMULA:** C<sub>10</sub>H<sub>13</sub>NO<sub>3</sub>**MOLECULAR WEIGHT:** 195.22**CAS NUMBER:** 4726-96-9**APPEARANCE:** Crystalline solid**SOLUBILITY:** DMSO**PURITY:** ≥98% by titration**STORAGE:** Store at -20 °C. Protect from air and light**DESCRIPTION:** O-Benzyl-L-serine (BenSer) is an inhibitor of the glutamine transporter ASCT2. BenSer significantly reduces both leucine and glutamine transport in melanoma cells, leading to inhibition of mTORC1 signaling. Cell proliferation and cell cycle progression are significantly reduced in the presence of BenSer in melanoma cells in 2D and 3D cell culture.**REFERENCE:** Wang, Q., *et al.* (2014). *Int. J. Cancer* **135**, 1060-1071.**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.**RELATED PRODUCTS:**O-Benzyl-L-serine (**B2152**)GPNA (**B2150**)Glutamine Colorimetric Assay Kit (**K556**)Glutamate Colorimetric Assay Kit (**K627**)**USAGE:** *FOR RESEARCH USE ONLY! Not to be used in humans*