Z-Leu-Leu-Leu-al

Catalog Number C2211
Storage Temperature –20 °C

CAS RN 133407-82-6
Synonym: MG132

Product Description
Molecular Formula: $C_{26}H_{41}N_3O_5$
Molecular Weight: 475.62

Z-Leu-Leu-Leu-al is an inhibitor of proteasome activity. It is a 50-fold stronger initiator of neurite outgrowth than N-acetyl-leu-leu-norleucinal (Catalog Number A6185). Since neurites induced by these inhibitors appear to be different, with a different persistence and a different length than those that occur when the cells are treated with nerve growth factor, dibutyrylcyclic AMP, or basic fibroblast growth factor, they may elicit neurite initiation by different mechanisms.

Precautions and Disclaimer
This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Preparation Instructions
The product is soluble in DMSO and at 10 mg/ml in a chloroform:methanol solution (95:5).

If addition of a stock DMSO solution of C2211 to culture medium results in formation of a precipitate, the following steps are recommended. Prepare the DMSO stock solution at a concentration such that the final concentration of DMSO in the medium is approximately 0.2% DMSO (v:v). Also, warm both the DMSO stock solution and the medium to approximately 40°C before mixing them.

References