

SAFETY ASSESSMENT OF POLY (3-HYDROXYBUTYRATE) SMALL OLIGOMERS

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ABSTRACT

Polyhydroxybutyrate acid (PHB) represent a storage polyester occurring as insoluble inclusion bodies in the cytoplasm of a number of microbial species. It is the most commonly occurring polyhydroxyalkanoate (PHA) and was first identified by Lemoigne in 1929. There are a few known side effects of PHB on humans, such as euphoria, acidosis, shivering, skin irritation, corrosive, hematemesis. In this study we have used Swiss Target Prediction, admetSAR, Toxtree and EndocrineDisruptome computational tools for predicting the molecular targets and respectively for assessing the ADME-Tox profiles and pharmacokinetic properties of small oligomers of polyhydroxybutyrate acid.

Keywords: polyhydroxybutyrate acid, ADME-Tox properties, pharmacokinetics.

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