Bisoprolol was patented in 1976 and approved for medical use in 1986. Bisoprolol possesses a single chiral centre and is administered as a racemic mixture. Only l-bisoprolol exhibits significant β1-blocking activity. Bisoprolol is a cardioselective β1-adrenergic blocking agent used for secondary prevention of myocardial infarction (MI), heart failure, angina pectoris and mild to moderate hypertension. Bisoprolol is structurally similar to metoprolol, acebutolol and atenolol in that it has two substituents in the para position of the benzene ring. The β1-selectivity of these agents is thought to be due in part to the large substituents in the para position. At lower doses (less than 20 mg daily), bisoprolol selectively blocks cardiac β1-adrenergic receptors with little activity against β2-adrenergic receptors of the lungs and vascular smooth muscle. Receptor selectivity decreases with daily doses of 20 mg or greater. Unlike propranolol and pindolol, bisoprolol does not exhibit membrane-stabilizing or sympathomimetic activity.

SynZeal Research offers all Bisoprolol related impurities which certified COA with all characterization data like IR, Mass, HPLC purity, NMR & TGA report. We also provide CMR, DEPT and detailed structure characterization report as per requirements. Bisoprolol related products are being used by major pharmaceutical companies across the globe for their ANDA/DMF filing.