



Some molecular motifs are associated with higher biological activity and are given the "privileged" label when found in molecules that are active at two or more different receptors. Revisiting privileged structures is even more momentous now, when investigators are looking for bi-specific therapeutics and when "rediscovery research" is fueling drug repurposing (1,2).

TimTec new selection of privileged structures includes diverse derivatives of [150 Mesoionic](#), [50 Aminomorpholine](#), and [340 Dihydropyridine](#) compounds available in sets and for cherry-picking.

Mesoionic compounds are "super-charged" having distinct positive and negative areas. These compounds interact well with biomolecules and are able to cross cellular membranes while having lower toxicity and being non-steroidal. Mesoionic compounds are known to have anti-infective, anti-inflammatory, antitumoral activities, and superoxide radical scavenging ability (3).

Aminomorpholines derivatives were previously reported to have anti-inflammatory and antimicrobial activities and neuropharmacological action (4).

Dihydropyridines are quite famous L-type calcium channel blockers with the long list of brand and generic drug names backing up their blood pressure lowering action. From chemistry perspective, these are pyridine-based structures. The therapeutic activity of Dihydropyridines in the treatment of hypertension was established in early 1970-s. These structures are still under exploration for the well-studied and, now, new targets potentially becoming neuroprotective medicines and anticancer agents (5).

Additional collections of privileged structures round up the following fragments derivatives:

[Benzhydryl](#) ;  
[Biphenyl](#) ;  
[Aza-\(and diaza-\)biphenyl](#) ;  
[Anilino-pyridine, pyrimidine, or triaz-in](#) ;  
[Phenylpiperazine](#) .

Discounted price depends on the final number of compounds selected and a required sample

size. Structural info is available in a variety of formats. You can request any other structure- or fragment- based selection for us to assemble custom sets.

### References:

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