

# Recipe 2.6. Fragmenting a peptide

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## 1. Problem

You want to fragment a peptide and generate an MS2 spectrum.

## 2. Solution

```
// build your custom fragmenter
PeptideFragmenter fragmenter =
    new PeptideFragmenter.Builder(EnumSet.of(
        FragmentationType.BY, FragmentationType.PRECURSOR,
        FragmentationType.IMMONIUM)).build();

// the peptide to fragment
Peptide aas = new Peptide.Builder("MQRSTATGCFKL").build();

// set the precursor peptide with its charge
fragmenter.setFragmentablePrecursor(aas, 1);

// just make the job
fragmenter.generateFragments();

// get the fragment list
PeakList pl = fragmenter.getPeakList();
```

## 3. Discussion

## 4. See Also